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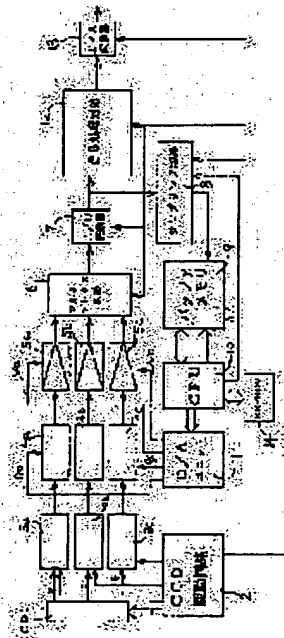
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(54) IMAGE PICKUP DEVICE EQUIPPED WITH IMAGE PICKUP ELEMENT FOR MULTICHANNEL OUTPUT

(57)Abstract:

PURPOSE: To improve adjustment precision by extracting respective channel outputs from an image pickup means comparing the extracted data, operating a DC voltage level adjustment quantity and a gain adjustment quantity, and automatically adjusting a DC voltage level and a gain.

CONSTITUTION: A CPU 10 reads an offset error and a gain error out of an EEPROM 14 and sends them out to a D/A unit 11. The unit 11 converts the error values into control voltages and sends them out to offset adjusting circuits 4a and 4c and amplifying circuits 5a and 5c. A CCD 1 picks up a subject image, accumulates electric charges corresponding to the luminance, pixel by pixel, and outputs the accumulated pixel information in synchronism with the clock from a CCD driving circuit 2. The outputted information is outputted to the circuits 4a-4c through noise reduction and sample and hold circuits 3a-3c and the reference DC voltage levels of the respective channels are adjusted and equalized. Further, the gains of amplifying circuits 5a-5c are adjusted so that the signal amplitudes of the respective channels become equal. Consequently, the adjustment precision is improved and the adjustment is automated.



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